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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/626,307	07/25/2003	Qi Meng	QMFLT/03	1934
29140 7	590 02/03/2006		EXAMINER	
DAVID W. WONG 46 WILLOWBROOK ROAD			FORTUNA, ANA M	
THORNHILL, ON L3T 4W9			ART UNIT	PAPER NUMBER
CANADA			1723	·
			DATE MAILED: 02/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/626,307	MENG, QI	
Office Action Summary	Examiner	Art Unit	
	Ana M. Fortuna	1723	_
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 66(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communion (35 U.S.C. § 133).	
Status			
 Responsive to communication(s) filed on 21 No. This action is FINAL. Since this application is in condition for allowant closed in accordance with the practice under E. 	action is non-final. ace except for formal matters, pro		ts is
Disposition of Claims			
4) Claim(s) 1,4-6,9 and 10 is/are pending in the ap 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 1,4-6,9 and 10 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access	vn from consideration. relection requirement. r. repted or b) □ objected to by the 8		
Applicant may not request that any objection to the on Replacement drawing sheet(s) including the correction	•	· ·	21(4)
11) The oath or declaration is objected to by the Exa			• •
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of 	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	;
Attachment(s) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. Claims 1, 4, 5, 6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 1 is unclear as to whether "1 percent by volume based on the total volume of the components of the filter material is intended. The term "small portion by volume" is indefinite as to what percentage of each of the polyethylene components are intended.

Claims 4, 5, 6 are rejected as depending on claim 1.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 9-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hughes (US 6,524,477) in view of Degen et al (US 4,664,683). This rejection was discussed in paper of 9/06/2005, and is maintained.
- 4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hughes (US 6,524,477) in view of Degen et al (US 4,664,683) as applied to claim 1 above and further in view of Chen et al (US 5,928,588). This rejection was discussed in paper of 9/06/2005, and is maintained.

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5. Claims 5-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hughes (US 6,524,477) in view of Degen et al (US 4,664,683) as applied to claim 1 above and further in view of Hughes (US 6,861,002). This rejection was discussed in paper of 9/06/2005, and is maintained.

Response to Arguments

- 6. Applicant's arguments filed 11/21/05 have been fully considered but they are not persuasive. Applicant argues that the main ingredient of the filter is WHMW polyethylene. Claim 1 as amended does not exclude additional components as part of the composition, e.g. activated carbon, as claimed in the discussed patents. The UHMW polyethylene properties as discussed in "remarks", page 6 of 8, second paragraph, are known in the art and inherent of products from Ticona LLC (see attached article), cited as evidentiary reference. Further more, adding binder with the UHMW polyethylene, e.g. as fillers, to improve properties of the final composition is disclosed in the references, the percentages added depend on the final desired properties, and it would have been obvious to the ordinary skilled in the art at the time the invention was made.
- 7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. References 4,753,728, 6,553,608, 6,770,736, and article "Ultrahigh Molecular Weight Polyethylene (UHMWPE) From Ticona LLC are cited as teaching filter medium made from UHMWPE, optimally containing fillers, and processes of making. Copending publication 20040168973 is also cited.
- 8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ana M. Fortuna whose telephone number is (571) 272-1141. The examiner can normally be reached on 9:30-6:00 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wanda L. Walker can be reached on (571) 272-1151. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ana M Fortuna Primary Examiner Art Unit 1723

AF February 01, 2006